METHOD AND DEVICE FOR RADIATION TOMOGRAPHY

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Abstract of **JP2000189412**

PROBLEM TO BE SOLVED: To improve picture quality by minimizing influence of motion of an examinee by collecting projected data in a state in which a fixed phase of a first signal emitted from the examinee and a fixed phase of at least one kind of signal that is different from the first signal are coincided. SOLUTION: A cardiac monitor 36 and a breathing monitor 38 measure a signal that shows motion of an examinee heart and chest and input it to an operation console 6 when a device is worked. When an operator inputs a photographic condition through an operation device 70, a central processor 60 begins control. Namely, a revolving part 32 of a scanning gantry 2 is revolved while keeping an interrelationship to an X-ray tube 20, a collimator 22 and a detection array 24 after when a position of a photographic table 4 that loads the examinee is decided. Projected data are collected by irradiating X-rays when a cardiac radiation-shaped R-wave is detected and then a breathing phase becomes a fixed position. An image is re-constituted from the data and displayed. Thereby, a tomoghaphic image can be gotten without influence of motion of the examinee.